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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577,212	04/25/2006	Holger Leicht	10191/4238	3343
26646 KENYON & K	7590 04/30/200 ENYON LLP	EXAMINER		
ONE BROADY		SWARTHOUT, BRENT		
NEW YORK, NY 10004			ART UNIT	PAPER NUMBER
			2612	
			MAIL DATE	DELIVERY MODE
			04/30/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/577,212	LEICHT, HOLGER	
Office Action Summary	Examiner	Art Unit	
	Brent A. Swarthout	2612	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION  136(a). In no event, however, may a reply be time to the second will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed I the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on <u>02 A</u> This action is <b>FINAL</b> . 2b) ☑ This 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro		
Disposition of Claims			
4)  Claim(s) 8,9,11,12 and 14-18 is/are pending i 4a) Of the above claim(s) is/are withdra 5)  Claim(s) 8,9,11,12,16 and 18 is/are allowed. 6)  Claim(s) 14,15,17 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/o	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examin	cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat* See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat prity documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail D 5)  Notice of Informal F 6)  Other:	ate	

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Forbes et al. in view of Yoshinori or Yoshinori, Bender et al. and Hightower, and further in view of Sato et al., Stafsudd et al. and Andersen et al.

Forbes discloses a lane assist system for a vehicle comprising a sensor device 102/104 for detecting lanes, device 406 for alerting a driver that vehicle is or may depart from a lane, except for specifically stating that warning involves a vibration in a seat indicating which direction lane deviation is occurring or that automatic steering is used. It is noted that elements 408 and 410 do teach desirability of indicating to which side lane deviation is occurring.

Bender teaches desirability in a lane deviation warning system of using either visual or seat vibrating means to alert a driver to lane deviation (col. 6, lines 17-19).

Hightower further teaches desirability in a vehicle of vibrating either side of a seat to indicate direction of deviation of a vehicle from a desired path (abstract).

Furthermore, Yoshinori teaches desirability in a vehicle warning system of providing vibration alerts at portions of a seat corresponding to direction of a threat approaching from behind when a vehicle is changing lanes (abstract).

Sato teaches desirability in a vehicle alarm system of providing warning when a vehicle is rapidly approaching from behind (col. 16, lines 3-5).

Stafsudd teaches desirability of utilizing automatic steering to correct course of vehicle when lane deviation is detected (paragraph 6).

It would have been obvious to utilize left and right seat vibration means to indicate which direction a vehicle was deviating a lane at with an approaching vehicle and to use automatic steering correction, in a system as disclosed by Forbes, since Bender and Hightower teach desirability of using, vibrations to indicate course deviation direction, Stafsudd teaches desirability of automatically steering a vehicle responsive to lane deviation and Yoshinori teaches direction of lane change with approaching vehicle, which would have permitted notification even in noisy or bright environments where light and sound alerts would have been distracting or hard to detect. Choosing to indicate rapidly approaching vehicles as suggested by Sato would have been further obvious in order to avoid nuisance alerts from slowly approaching vehicles that did not present a hazard.

Furthermore, Andersen teaches desirability of providing a vibrational alert to a user of a certain condition and for providing a secondary audible and visual alert if the vibrational alert is not heeded (col. 5, lines 57-67).

It would have been obvious to provide a secondary alert as suggested by

Andersen in conjunction with the vibration alert system as disclosed by Forbes,

Yoshinori, Bender and Hightower, in order that a user could have still been alerted to a
hazardous condition even if a preliminary warning was not detected.

2. Claims 14,15 and 17 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims are non-statutory

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since they recite purely mental steps without reciting the structural elements necessary to accomplish the method steps.

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- 3. Claims 8,9,11,12,16 and 18 are allowed.
- 4. Regarding remarks filed with the response on 4-2-09, on page 7 it is stated that references do not show vibration of a mat underneath a seat which is activated separately for left and right sides. However, since Bender and Hightower teach desirability of activating a seat vibration system which can be activated on either side of the seat depending on which side of the vehicle a condition pertains to, choosing to have the vibration means be a mat as opposed to equivalent other vibrating seat means would have been obvious to one of ordinary skill in the art, merely depending on whether a system designer desired to have an integral seat system or one which could be retrofitted to existing seats. It is noted that claim 17 does not include limitation as set forth in allowable claim 16 that warning is given when driver has not reacted to vibration and the vehicle continues to depart the lane or threatens to depart the lane.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brent A. Swarthout whose telephone number is 571-272-2979. The examiner can normally be reached on M-Th from 6:00 to 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Benjamin Lee, can be reached on 571-272-2963. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Brent A Swarthout/
Primary Examiner, Art Unit 2612

Brent A Swarthout Primary Examiner Art Unit 2612